PASE®

Professional Public Address System

PM5045
PM5060
PM5120
Mixing Amplifier

USER MANUAL

Before operating, please read this manual completely

FEATURES:

- **5 MIC inputs, 2 AUX inputs, 1 Record input, 1 Record output**
- **Priority muting for chime and siren**
- **Three levels of priority muting: MIC1＞siren＞chime**
- **5 LED level meter**
- **Individual volume control for each input, master bass and treble control**
- **Speaker outputs 100V, 70V and 4Ω**
- **Power supply AC 220V-240V or DC 24V**
- **Thermal, over load, short circuit protection and siren**

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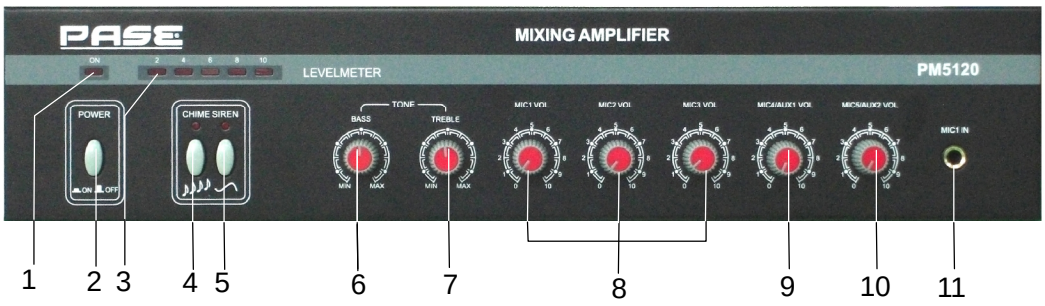
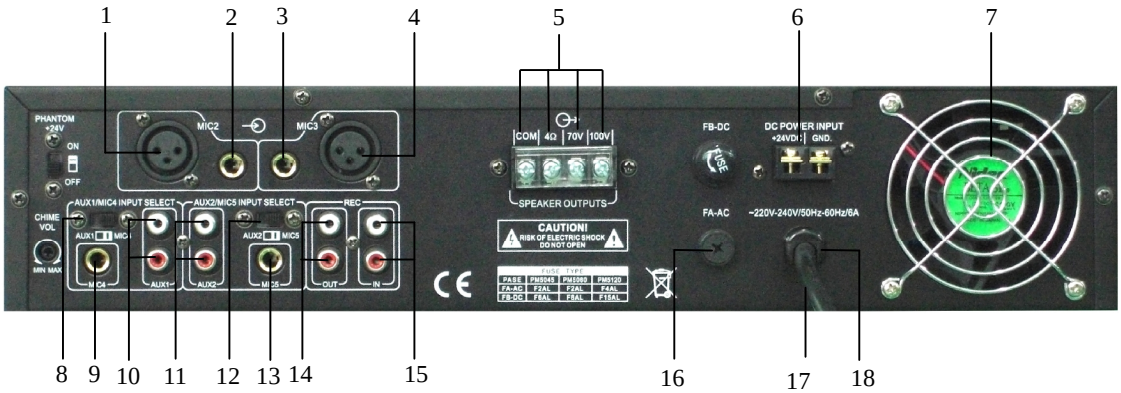
FRONT PANEL



1. Led Power Indicator
2. Power Switch
3. Led Level Meter
4. Chime
5. Siren
6. Bass Control
7. Treble Control
8. Mic1, 2, 3 Volume Control
9. Mic4 / Aux1 Volume Control
10. Mic5 / Aux2 Volume Control
11. 6.3mm Jack Type Mic1 Input

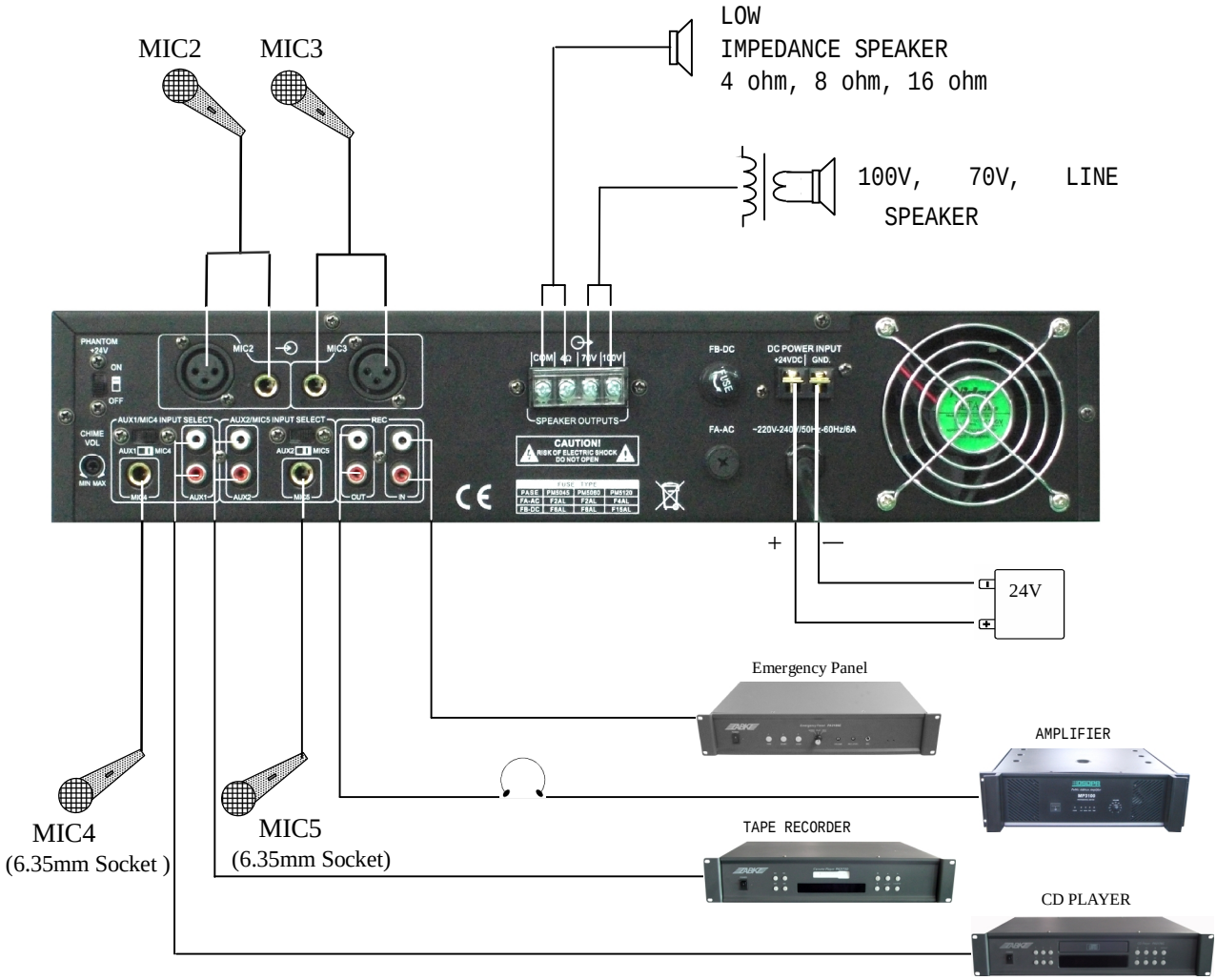
NOTE: When all 5 LED level meters remain lit, sound is distorted. In such case, adjusting each volume control button till LED 4 (+8dB) and LED 5 (+10dB) flash.

REAR PANEL



1. Mic2 : XLR Input
2. Mic2 : 6.3mm Input
3. Mic3 : 6.3mm Input
4. Mic3 : XLR Input
5. Output Terminals
6. 24V DC Supply Input Terminal
7. Fan Exhaust Window
8. AUX 1 / Mic4 Switch
9. Mic4 : 6.3mm Input
10. AUX 1 : Line Input
11. AUX 2 : Line Input
12. AUX 2 / Mic5 Switch
13. Mic5 : 6.3mm Input
14. Record output or Amplifier link
15. Record input
16. 24V DC Fuse
17. 240V AC Power cord
18. 240V AC Fuse

CONNECTION



Speaker output terminals are on the rear panel. The terminal under the label “COM” is COMMON. The terminals under the labels “4Ω, 70V, 100V” are Hot. The connection ways shall be COM-4Ω / COM-70V / COM-100V.

Normally the “rated power” (70V / 100V) output terminal is used in output connection. The connected speaker should be with a transformer, and the gross power of speakers should be less than the rated power of the amplifier.

“Rated Impedance”(4-16Ω) output terminal can be used when speakers are fixed closely, and the gross impedance of speakers should be 4-16Ω.

Note:

- **Never connect two hot terminals (labeled 4Ω, 70V, 100V) together.**
- **Only choose one pair of output terminals for speaker connection. The connection ways shall be COM-4Ω / COM-70V / COM-100V.**

Tone and volume: “BASS” and “TREBLE” knob provides the tone control of overall system. MIC1, 2, 3, 4, 5 have separate volume control. MIC4 and AUX1 or MIC5 and AUX2 have a common volume control knob.

MIC: MIC inputs are balanced with phantom power. Two types of MIC inputs available: 6.3mm (MIC1, 4, 5) and XLR (MIC 2, 3). MIC 4 & 5 inputs are compatible with AUX 1 & 2 inputs. “MIC4/AUX1” and “MIC5/AUX2” can be selected through the switches on the back panel. MIC1 has the highest level of priority muting function and can override all input signals.

Note: To prevent howling, keep volume level down to minimum before connecting microphone.

Chime / Siren: Pressing the “CHIME” / “SIREN” button will activate the chime or siren circuitry. The LED indicator above the button will be lit up simultaneously. Pressing the “SIREN” button again will stop siren broadcasting and the LED will be turned off.

Levels of priority muting: MIC1, siren and chime have priority muting functions. MIC1 has the highest level of priority muting and can override all other input signals. Siren has the second level. Chime has the third level and can override all input signals except for MIC1 and siren.

REC input / output: REC input can connect to an external source (CD player, tuner, cassette player, etc.) The volume of this input is not adjustable. While recording program signal can send to REC input and at the same time signal send out to recording equipment through REC output. REC output also can be used for monitoring the other input signals.

PRECAUTION OF INSTALLATIOM

1. Do not block ventilation holes.
2. Do not use this amplifier if the power cord is frayed or broken.
3. The amplifier should not be placed in any of the areas:
   1) poor ventilation
   2) exposed to sunlight directly
   3) high ambient temperature or adjacent to heat-generating equipment;
   4) high humidity or heavy dust;
   5) Susceptible to vibration.
4. Make sure the plug conforms to the socket.
5. For safety, please make grounding.
6. Short-circuit fault happens when short alarm rings during operation, In such case, switch off the power immediately and check the faults before switching on again.

CAUTION

- For safety, when “Power switch” is off, please detach the power plug from the power point.
- The apparatus shall not be exposed to dripping or plashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- To reduce the risk of electric shock, do not remove the cover.
- No user serviceable parts inside. Refer servicing to qualified service personnel.

SPECIFICATIONS*:*

Model	PM5045	PM5060	PM5120
Rated Output	45W	60W	120W
Output Regulation Ratio	Less than 3 dB from no-load to full load		
Speaker Output	4Ω Balanced，70V、100 V		
REC Output	600Ω 1V		
Inputs	MIC1, 2, 3, 4, 5: 600Ω, 6mV Balanced		
	AUX1, 2: 10kΩ, 270mV unbalanced；REC IN：10kΩ，300mV		
Frequency Response	Line：50Hz-20kHz (±3dB)；Microphone：100Hz-10kHz (±3dB)		
Distortion	< 0.5%　at 1kHz , 1/3 rated power		
S/N Ratio	MIC1, 2, 3, 4, 5:　70dB		
	AUX1, 2:　75dB		
Tone Control	Bass:　±12 dB at 100Hz		
	Treble:　±12dB at 10KHz		
Protection	AC fuses, DC fuses, overload, short circuit		
Muting Function	MIC1 overrides other input signals (Attenuation: 0 to -30dB)		
	SIREN overrides other input signals（except MIC1）（Attenuation: 0 to -30dB）		
	CHIME overrides other input signals（except MIC1,SIREN）(Attenuation: 0 to -30dB)		
Power Supply Requirements	AC220-240V / 50-60Hz, DC24V		
Power Consumption	80W	100W	200W
Dimensions	430×360×88mm	430×360×88mm	430×360×88mm
Gross Weight	11.5 kg	11.7kg	13.5kg
Net Weight	10.2kg	10.5kg	12.1kg

Specifications are subject to change without notice